

January 25, 2005

Ref. 04-220803-003

Ms. Delrae Erickson
Exchange Bank
444 Aviation Boulevard
Santa Rosa, CA 95403

Re: Quarterly Groundwater Monitoring Report – Fourth Quarter 2004, Former Exchange Bank, 330 Sebastopol Road, Santa Rosa, California, NCRWQCB Case No. 1TSO089

Dear Ms. Erickson:

This report presents Winzler & Kelly Consulting Engineers' (Winzler & Kelly's) results of groundwater monitoring and sampling activities performed on December 13 and 14, 2004, at the Former Exchange Bank (site) located at 330 Sebastopol Road, Santa Rosa, California (Figures 1 and 2).

GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

The Site-Specific Sampling Procedures, provided in Appendix A, describe in detail all of the monitoring and sampling activities that were performed at the site on December 13 and 14, 2004. A brief summary of these activities is also provided below.

FIELD ACTIVITIES

- Personnel Present:*** Winzler & Kelly's Environmental Engineer, Pon Xayasaeng, performed the groundwater monitoring and sampling activities.
- Dissolved Oxygen:*** On December 13, 2004, a calibrated dissolved oxygen (DO) meter was used to measure the concentrations of DO in monitoring wells M-1 through M-4, M-6, and M-7. The DO readings were obtained while the biosparge system was operating.
- Biosparge Shutdown:*** Following DO measurements on December 14, 2004, the biosparge system was shutdown to allow groundwater levels within the monitoring wells to equilibrate.
- Depth-to-Water:*** Groundwater flow direction was monitored on December 14, 2004, by measuring the depth-to-groundwater in monitoring wells M-1 through M-4, M-6, and M-7 using an electronic water level meter.



Purging: Prior to sampling, a new polyethylene disposable bailer was used to purge monitoring wells M-2 and M-4 of three casing volumes. An electronic 12-volt 1.5-inch submersible pump was used to purge each of the other monitoring wells sampled until the indicator parameters of pH, conductivity, and temperature had stabilized.

Monitoring Well Sampling: Groundwater samples were collected from monitoring wells M-1 through M-4, M-6, and M-7. New disposable bailers were used to collect and transfer the groundwater from each monitoring well into the appropriate laboratory-supplied, certified clean sample containers.

Chemical Analysis: Analytical Sciences Laboratory (Analytical Sciences) of Petaluma, California (a California-certified laboratory) analyzed groundwater samples from monitoring wells M-1, M-3, M-4, and M-6 for total petroleum hydrocarbons as gasoline (TPH-G) by EPA Method 8015M, and for benzene, toluene, ethyl benzene, and total xylenes (BTEX), oxygenated fuel additives, and lead scavengers by EPA Method 8260B. In addition, Analytical Sciences analyzed groundwater samples collected from monitoring wells M-2, M-3, M-6, and M-7 for phosphate and nitrate by EPA 300 (IC) and for pH by EPA 9040.

FOURTH QUARTER 2004 GROUNDWATER MONITORING RESULTS

The groundwater elevation and flow direction data are presented in Tables 1 and 2. A groundwater contour map, provided as Figure 3, illustrates the groundwater elevation contours and flow direction at the site on December 14, 2004. As Figure 3 shows, the groundwater flow direction at the site was toward the northwest, at an approximate gradient of 0.008 ft/ft.

On December 13, 2004, the DO was measured in each well while the biosparge system was operating. Monitoring well M-1 had the highest DO reading at 9.88 mg/L. Table 3 summarizes the results.

During groundwater purging activities, the parameters of pH, conductivity, and temperature were monitored and recorded. A summary of these indicator parameters is provided in Table 3. Table 3 also includes the laboratory results of the nitrate, phosphate, and pH sampling for monitoring wells M-2, M-3, M-6, and M-7.

All the wells indicate a decreasing or stable trend in nitrate concentrations. Nitrate concentrations in all the wells are below the maximum contaminant levels (MCLs), except for M-7 where a continuing decrease is observed.



Results from this monitoring event indicate a decrease in contaminant concentrations in those areas where biosparging has been applied. The highest concentrations of constituents of concern (COCs) were quantified in the groundwater samples collected from monitoring well M-6 where biosparging was most recently activated. Laboratory analysis of groundwater samples collected on December 14, 2004, quantified TPH-G and total xylenes in monitoring well M-6 at 490 and 19.3 µg/L, respectively. TPH-G has significantly decreased compared to the pre-biosparge concentration of 1,900 µg/L. The laboratory analysis of groundwater samples collected from each of the other monitoring wells (M-1, M-3, M-4, and M-7) did not quantify TPH-G, benzene, or MTBE above the laboratory's RDLs (Figure 4). A comprehensive summary of the analytical results of the groundwater samples collected from the wells at the site is provided in Table 4.

Graphs were prepared to depict the groundwater elevation and concentrations of TPH-G over time in monitoring wells M-1 and M-6. The graphs show the effectiveness of the biosparge system in decreasing concentrations of COCs in monitoring wells located within or near the radius of influence of existing biosparge points. The graph for monitoring well M-1 shows a decreasing trend in concentrations of COCs. The graph for monitoring well M-6, which is influenced by the biosparge system, shows the concentration of TPH-G in M-6 is significantly lower than past concentrations at similar times of the year.

The laboratory QA/QC included the use of method blanks to exclude false-positive analyses and the use of laboratory control samples to evaluate the percentage recovery of known analyte spikes. The recovery percentages for all of the sample analytes were within acceptable ranges. The complete laboratory report, QA/QC data, and the chain-of-custody form for the groundwater samples are included in Appendix B.

GEOTRACKER DATA ENTRY

As required by Assembly Bill AB2886, Winzler & Kelly has submitted the groundwater well measurement file for the December 14, 2004 monitoring event and the analytical data for the July 1 and 16, 2004 monitoring event to the GeoTracker database. Copies of the submittal verifications are included in Appendix C. Winzler & Kelly will submit the analytical data for the December 14, 2004 monitoring event to the GeoTracker database upon receipt of the EDF report from Analytical Sciences.

RECOMMENDATIONS

Winzler & Kelly will continue to perform quarterly groundwater monitoring and sampling activities at the site. The first quarter 2005 monitoring and sampling event is scheduled for March 2005. Winzler & Kelly recommends lab analysis of pH to be discontinued; however, field measurements will be continued.



WINZLER & KELLY
CONSULTING ENGINEERS

Ms. Delrae Erickson

January 25, 2005

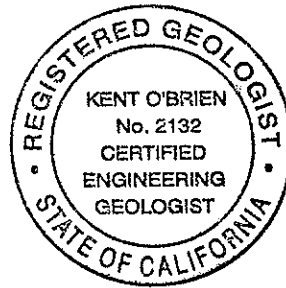
Page 4

Should you have any questions or comments regarding this project, please contact Elizabeth Cargay, Project Manager, at (707) 523-1010.

Sincerely,
WINZLER & KELLY

Pon Xayasaeng
Environmental Engineer

Kent O'Brien, RG, CEG
Senior Project Geologist



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Attachments

Figures:

- Figure 1 – Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Contour Map
- Figure 4 – Petroleum Hydrocarbon Concentrations in Groundwater

Tables:

- Table 1 – Water Level Data and Well Construction Detail
- Table 2 – Groundwater Gradient and Flow Direction
- Table 3 – DO, Nutrients, and Indicator Parameters
- Table 4 – Analytical Results of Groundwater Monitoring Well Samples

Graphs:

- Graph 1 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1
- Graph 2 – TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6

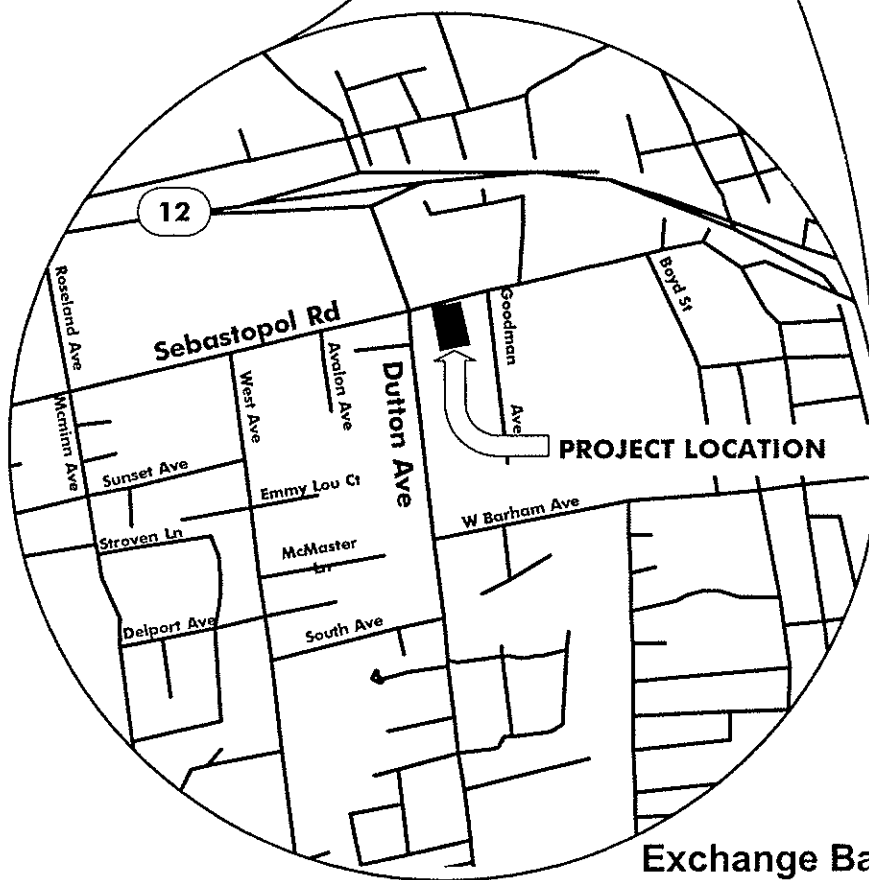
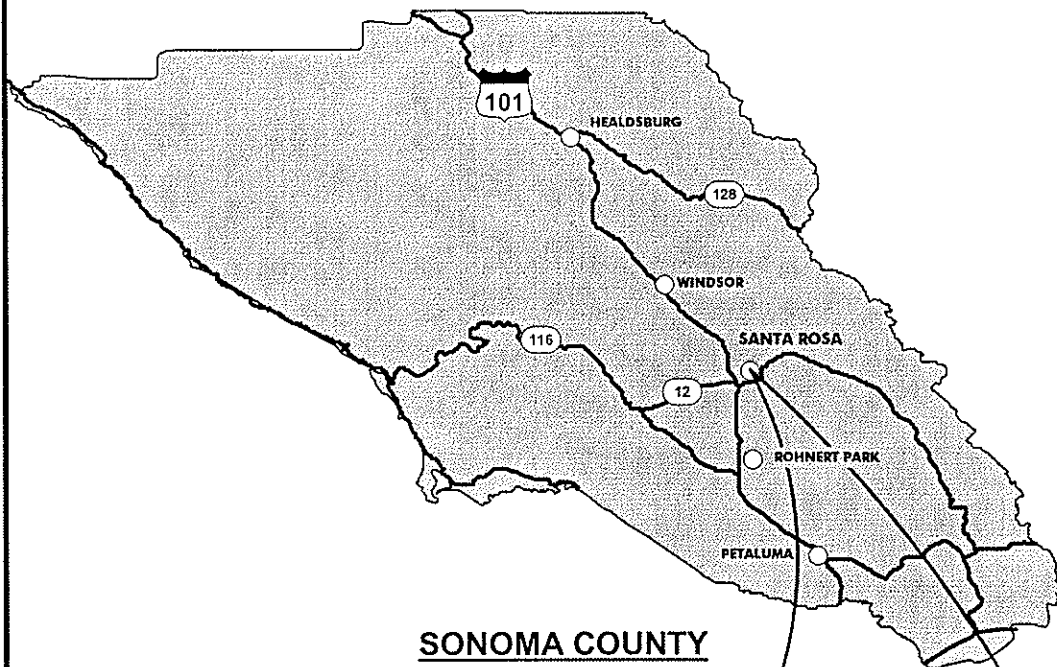
Appendices:

- Appendix A – Site-Specific Sampling Procedures
- Appendix B – Analytical Laboratory Report
- Appendix C – GeoTracker Upload Verifications

- c: Mr. Bill Erdei, North Coast Regional Water Quality Control Board, 5550 Skylane Blvd.,
Santa Rosa, CA 95403
Mr. Carl Merner, Merner Land Company, P.O. Box 3468, Santa Rosa, CA 95402
Mr. William Manly, 2750 Corby Avenue, Santa Rosa, CA 95407



NOT TO SCALE



LOCATION MAP

Exchange Bank Data Center
330 Sebastopol Road
Santa Rosa, CA

FIGURE 1



*DW-437 ●



LEGEND

S-1 ⊕ BIOSPARGE POINT LOCATIONS

M-1 ♦ MONITORING WELL LOCATIONS

DW-674 ● DOMESTIC WELL LOCATION INDICATING ADDRESS ON DUTTON AVENUE

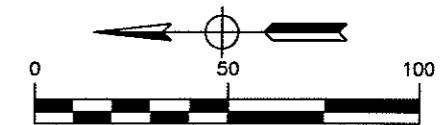
UMW1 ● UNOCAL MONITORING WELL LOCATIONS

*NOTE:
THE LOCATION OF DW-437 IS APPROXIMATE. NOT A PRODUCT OF SURVEY

EXCHANGE BANK SITE PLAN

FIGURE 2

*DW-437●



LEGEND

M-1 ◆ MONITORING WELL LOCATIONS

DW-674 ● DOMESTIC WELL LOCATION INDICATING ADDRESS ON DUTTON AVENUE

UMW1 ◆ UNOCAL MONITORING WELL LOCATIONS

(135.16) GROUNDWATER ELEVATION

— GROUNDWATER CONTOUR

*NOTE:
THE LOCATION OF DW-437 IS APPROXIMATE, NOT A PRODUCT OF SURVEY.

SEBASTOPOL ROAD

DUTTON AVE.

GENERAL
GROUNDWATER
FLOW DIRECTION

FORMER UST
LOCATION

PRIVATE
RESIDENCE

EAST
BUILDING

WEST
BUILDING

UNOCAL

UMW9

UMW8

UMW1

UMW7

UMW4

UMW2

UMW3

UMW12

UMW5

UMW6

M-4
(135.09)

M-2
(134.87)

M-3
(134.87)

M-1
(135.16)

M-7
(134.85)

M-6
(134.82)

M-8

DW-630

DW-674

36

32

22

20

43

40

16

38

39

31

33

674

654

588

30

584

568

606

630

648

668

EXCHANGE BANK
GROUNDWATER CONTOUR MAP
DECEMBER 14, 2004

FIGURE 3

WINZLER & KELLY
CONSULTING ENGINEERS

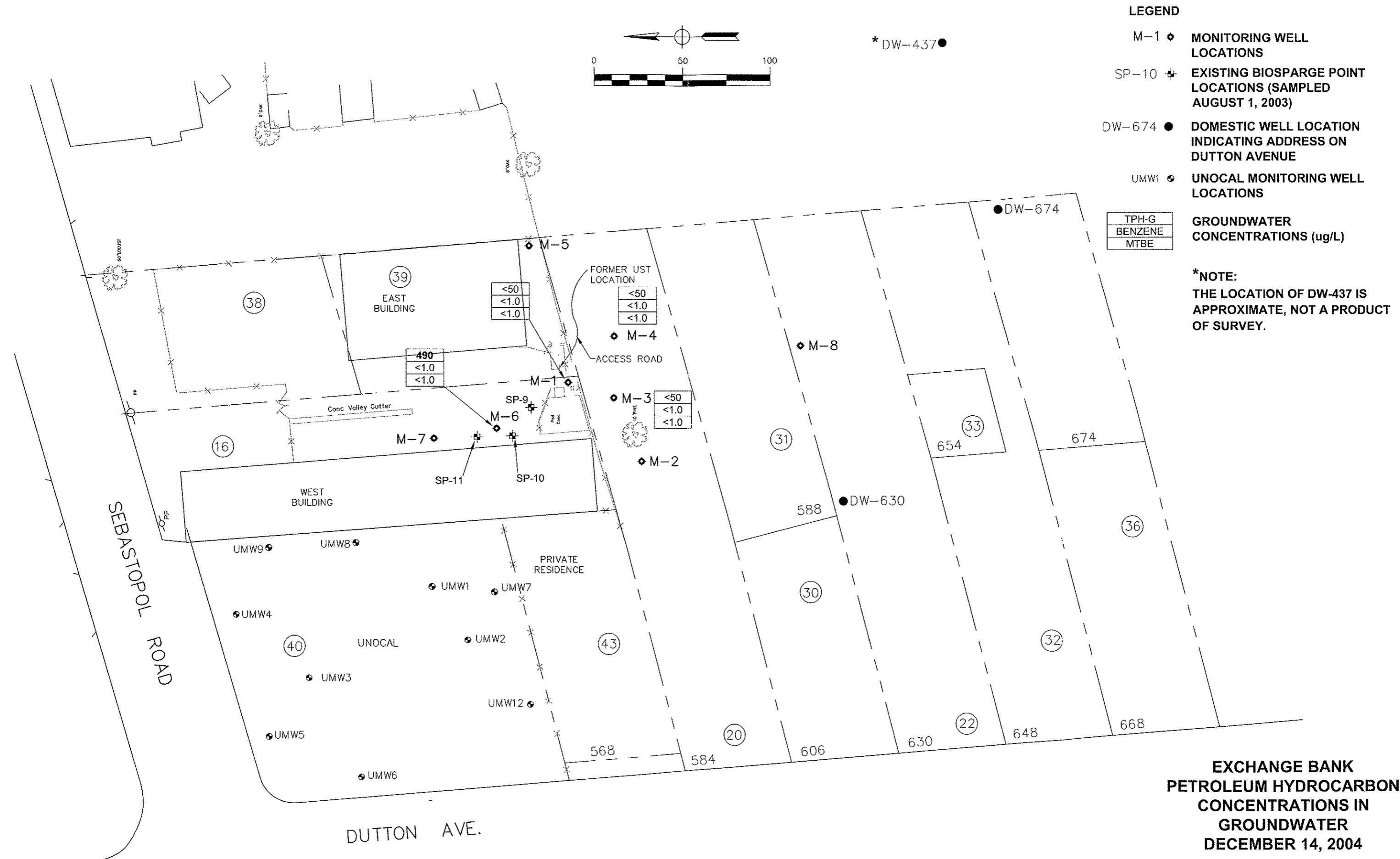


Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-1	12/29/1992	137.23	7.73	144.96	NM	4" Well 10 - 25 0.020"	9 - 25 #3 sand	0 - 9
	1/27/1993	139.26	5.70					
	12/11/1993	134.67	10.29					
	5/13/1994	135.31	9.65					
	9/17/1994	131.04	13.92					
	10/26/1994	130.29	14.67					
	12/17/1994	136.09	8.87					
	3/18/1995	140.07	4.89					
	6/24/1995	135.37	9.59					
	9/23/1995	132.38	12.58					
	12/16/1995	135.74	9.22					
	3/23/1996	137.68	7.28					
	6/20/1996	135.45	9.51					
	3/12/1997	136.49	8.47					
	6/26/1997	133.65	11.31					
	12/18/1997	137.10	7.86					
	1/29/1998	139.71	5.25					
	2/27/1998	141.27	3.69					
	3/18/1998	139.41	5.55					
	4/9/1998	138.54	6.42					
	5/29/1998	139.15	5.81					
	6/18/1998	136.38	8.58					
	7/22/1998	135.01	9.95					
	8/26/1998	133.83	11.13					
	9/16/1998	133.16	11.80					
	10/20/1998	132.48	12.48					
	11/19/1998	133.39	11.57					
	12/30/1998	135.19	9.77					
	3/18/1999	138.83	6.13					
	6/16/1999	134.97	9.99					
	9/23/1999	131.96	13.00					
	12/29/1999	132.96	12.00					
	8/31/2000	132.49	12.47					
	10/17/2000	System start-up on 10-17-00						
	10/25/2002	131.38	13.58					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.39	11.57					
	3/15/2001	137.93	7.03					
	6/14/2001	133.71	11.25					
	9/18/2001	130.94	14.02					
	11/13/2001	133.23	11.73					
	12/11/2001	138.04	6.92					
	1/15/2002	140.14	4.82					
	2/12/2002	137.65	7.31					
	3/12/2002	138.32	6.64					
	4/16/2002	136.17	8.79					
	5/14/2002	135.26	9.7					
	6/11/2002	134.47	10.49					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
7/16/2002	132.89	12.07						
8/9/2002	NA	NA						
8/13/2002	132.21	12.75						
12/12/2002	133.65	11.31						
3/12/2003	137.01	7.95						
6/11/2003	135.66	9.30						
9/10/2003	132.51	12.45						
1/20/2004 *	138.46	6.50						
3/31/2004	137.25	7.71						
7/16/2004	133.01	11.95						
9/15/2004	131.51	13.45						
12/14/2004	135.16	9.80						

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Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-2	5/13/1994	135.23	8.10	143.33	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	9/17/1994	132.16	11.17					
	9/17/1994	132.16	11.17					
	12/17/1994	135.93	7.40					
	6/24/1995	135.27	8.06					
	9/23/1995	132.44	10.89					
	12/16/1995	135.37	7.96					
	3/23/1996	137.40	5.93					
	6/20/1996	135.36	7.97					
	3/12/1997	136.29	7.04					
	6/26/1997	133.60	9.73					
	12/17/1997	136.88	6.45					
	1/29/1998	139.11	4.22					
	2/27/1998	140.79	2.54					
	3/17/1998	138.93	4.40					
	4/9/1998	138.12	5.21					
	5/29/1998	137.04	6.29					
	6/19/1998	136.22	7.11					
	7/22/1998	134.97	8.36					
	8/26/1998	133.75	9.58					
	9/16/1998	133.13	10.20					
	10/20/1998	132.47	10.86					
	11/19/1998	133.26	10.07					
	12/30/1998	135.13	8.20					
	3/18/1999	138.39	4.94					
	6/16/1999	134.89	8.44					
	9/23/1999	131.96	11.37					
	12/23/1999	132.95	10.38					
	8/31/2000	132.47	10.86					
	10/17/2000	System start-up						
	10/25/2000	131.49	11.84					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.21	10.12					
	3/15/2001	137.49	5.84					
	6/14/2001	133.71	9.62					
	9/18/2001	131.08	12.25					
	11/13/2001	132.21	11.12					
	12/11/2001	137.73	5.60					
	1/15/2002	139.56	3.77					
	2/12/2002	137.16	6.17					
	3/12/2002	137.70	5.63					
	4/16/2002	136.02	7.31					
	5/14/2002	135.17	8.16					
	6/11/2002	134.44	8.89					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.03	10.30					
	8/13/2002	132.53	10.80					
	12/12/2002	132.35	10.98					
	3/12/2003	136.68	6.65					
	6/11/2003	135.58	7.75					
	9/10/2003	132.68	10.65					
	1/20/2004 *	138.05	5.28					
	3/31/2004	136.84	6.49					
	7/16/2004	133.04	10.29					
	9/15/2004	131.63	11.70					
	12/14/2004	134.87	8.46					

Table 1. Water Level Data and Well Construction Detail

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330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
					feet			
M-3	2/27/1997	---	---	143.46	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	3/13/1997	136.33	7.13					
	6/27/1997	133.60	9.86					
	12/18/1997	136.92	6.54					
	1/29/1998	139.58	3.88					
	2/27/1998	140.93	2.53					
	3/17/1998	139.03	4.43					
	4/9/1998	138.20	5.26					
	5/29/1998	137.34	6.12					
	6/18/1998	136.25	7.21					
	7/22/1998	134.96	8.50					
	8/26/1998	133.76	9.70					
	9/16/1998	133.12	10.34					
	10/20/1998	132.48	10.98					
	11/19/1998	133.27	10.19					
	12/30/1998	135.15	8.31					
	3/18/1999	138.48	4.98					
	6/16/1999	134.90	8.56					
	9/23/1999	131.96	11.50					
	12/23/1999	132.97	10.49					
	8/31/2000	132.48	10.98					
	10/17/2000	System start-up						
	10/25/2000	131.47	11.99					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.23	10.23					
	3/15/2001	137.54	5.92					
	6/14/2001	133.61	9.85					
	9/18/2001	131.04	12.42					
	11/13/2001	132.32	11.14					
	12/11/2001	137.75	5.71					
	1/15/2002	139.66	3.80					
	2/12/2002	137.21	6.25					
	3/12/2002	137.78	5.68					
	4/16/2002	136.03	7.43					
	5/14/2002	135.17	8.29					
	6/11/2002	134.43	9.03					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.02	10.44					
	8/13/2002	132.50	10.96					
	12/12/2002	132.41	11.05					
	3/12/2003	136.73	6.73					
	6/11/2003	135.58	7.88					
	9/10/2003	132.67	10.79					
	1/20/2004 *	138.14	5.32					
	3/31/2004	136.89	6.57					
	7/16/2004	133.05	10.41					
	9/15/2004	131.60	11.86					
	12/14/2004	134.87	8.59					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-4	3/12/1997	136.43	7.49	143.92	NM	2" Well 5 - 15 0.020"	#2/12 4 - 15	0 - 4
	6/27/1997	133.67	10.25					
	12/20/1997	137.01	6.91					
	1/29/1998	139.56	4.36					
	2/27/1998	141.11	2.81					
	3/18/1998	139.20	4.72					
	4/9/1998	138.36	5.56					
	5/29/1998	137.73	6.19					
	6/19/1998	136.35	7.57					
	7/22/1998	135.02	8.90					
	8/26/1998	133.84	10.08					
	9/16/1998	133.21	10.71					
	10/21/1998	132.58	11.34					
	11/19/1998	133.39	10.53					
	12/30/1998	135.22	8.70					
	3/18/1999	138.67	5.25					
	6/16/1999	134.98	8.94					
	9/23/1999	132.07	11.85					
	12/29/1999	133.07	10.85					
	8/31/2000	132.58	11.34					
	10/17/2000	System start-up on 10-17-00						
	10/25/2000	130.60	13.32					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.41	10.51					
	3/15/2001	137.77	6.15					
	6/14/2001	133.77	10.15					
	9/18/2001	131.22	12.70					
	11/13/2001	132.78	11.14					
	12/11/2001	137.91	6.01					
	1/15/2002	139.90	4.02					
	2/12/2002	137.52	6.40					
	3/12/2002	138.12	5.80					
	4/16/2002	136.21	7.71					
	5/14/2002	135.29	8.63					
	6/11/2002	134.51	9.41					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.13	10.79					
	8/13/2002	132.60	11.32					
	12/12/2002	132.91	11.01					
	3/12/2003	136.96	6.96					
	6/11/2003	135.69	8.23					
	9/10/2003	132.74	11.18					
	1/20/2004 *	138.37	5.55					
	3/31/2004	137.14	6.78					
	7/16/2004	133.16	10.76					
	9/15/2004	131.76	12.16					
	12/14/2004	135.09	8.83					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-5	3/12/1997	136.60	8.26	144.86	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	6/26/1997	133.75	11.11					
	12/17/1997	137.07	7.79					
	1/29/1998	139.90	4.96					
	2/27/1998	141.48	3.38					
	3/17/1998	139.44	5.42					
	4/9/1998	138.57	6.29					
	5/29/1998	137.27	7.59					
	6/18/1998	136.52	8.34					
	7/22/1998	135.14	9.72					
	8/26/1998	133.93	10.93					
	9/16/1998	133.31	11.55					
	10/20/1998	132.65	12.21					
	11/19/1998	133.42	11.44					
	12/30/1998	135.29	9.57					
	3/18/1999	138.89	5.97					
	6/16/1999	135.05	9.81					
	9/23/1999	132.18	12.68					
	12/23/1999	133.12	11.74					
	8/31/2000	132.66	12.20					
	10/17/2000	System start-up						
	10/25/2000	131.77	13.09					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.40	11.46					
	3/15/2001	137.87	6.99					
	6/14/2001	133.84	11.02					
	9/18/2001	131.48	13.38					
	11/13/2001	132.84	12.02					
	12/11/2001	138.01	6.85					
	1/15/2002	140.10	4.76					
	2/12/2002	137.54	7.32					
	3/12/2002	138.03	6.83					
	4/16/2002	136.31	8.55					
	5/14/2002	135.36	9.50					
	6/11/2002	134.61	10.25					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.23	11.63					
	8/13/2002	132.65	12.21					
	12/12/2002	132.73	12.13					
	3/12/2003	137.02	7.84					
	6/11/2003	135.83	9.03					
	9/10/2003	132.84	12.02					
	1/20/2004 *	138.46	6.40					
	3/31/2004	NM	NM					
	7/16/2004	133.25	11.61					
	9/15/2004	NM	NM					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-6	3/12/1997	136.79	7.89	144.68	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	6/26/1997	133.61	11.07					
	12/18/1997	136.97	7.71					
	1/29/1998	139.58	5.10					
	2/27/1998	141.27	3.41					
	3/18/1998	139.46	5.22					
	4/9/1998	138.57	6.11					
	5/29/1998	137.47	7.21					
	6/18/1998	136.47	8.21					
	7/22/1998	135.03	9.65					
	8/26/1998	133.79	10.89					
	9/16/1998	133.09	11.59					
	10/20/1998	131.41	13.27					
	11/19/1998	133.25	11.43					
	12/30/1998	135.13	9.55					
	3/18/1999	138.88	5.80					
	6/16/1999	134.96	9.72					
	9/23/1999	131.86	12.82					
	12/29/1999	132.80	11.88					
	8/31/2000	132.41	12.27					
	10/17/2000	System start-up						
	10/25/2000	131.36	13.32					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.15	11.53					
	3/15/2001	137.75	6.93					
	6/14/2001	133.60	11.08					
	9/18/2001	130.99	13.69					
	11/13/2001	132.34	12.34					
	12/11/2001	137.59	7.09					
	1/15/2002	140.08	4.60					
	2/12/2002	137.64	7.04					
	3/12/2002	137.93	6.75					
	4/16/2002	136.29	8.39					
	5/14/2002	135.26	9.42					
	6/11/2002	134.37	10.31					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.91	11.77					
	8/13/2002	132.15	12.53					
	12/12/2002	132.32	12.36					
	3/12/2003	137.10	7.58					
	6/11/2003	135.75	8.93					
	9/10/2003	132.45	12.23					
	1/20/2004 *	138.35	6.33					
	3/31/2004	137.35	7.33					
	7/16/2004	132.99	11.69					
	9/15/2004	131.45	13.23					
	12/14/2004	134.82	9.86					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-7	3/12/1997	136.73	8.07	144.80	NM	2" Well 5 - 20 0.020"	#2/12 4 - 20	0 - 4
	6/26/1997	133.55	11.25					
	12/17/1997	136.97	7.83					
	1/29/1998	139.42	5.38					
	2/27/1998	141.21	3.59					
	3/17/1998	139.42	5.38					
	4/9/1998	138.56	6.24					
	5/29/1998	137.42	7.38					
	6/18/1998	136.22	8.58					
	7/22/1998	135.00	9.80					
	8/26/1998	133.76	11.04					
	9/16/1998	133.07	11.73					
	10/20/1998	132.33	12.47					
	11/19/1998	133.20	11.60					
	12/30/1998	135.11	9.69					
	3/18/1999	138.86	5.94					
	6/16/1999	134.95	9.85					
	9/23/1999	131.79	13.01					
	12/23/1999	132.73	12.07					
	8/31/2000	132.34	12.46					
	10/17/2000	System start-up						
	10/25/2000	131.31	13.49					
	11/13/2000	System down due to compressor failure						
	12/6/2000	System restart						
	12/20/2000	133.13	11.67					
	3/15/2001	137.72	7.08					
	6/14/2001	133.58	11.22					
	9/18/2001	130.98	13.82					
	11/13/2001	132.50	12.30					
	12/11/2001	137.56	7.24					
	1/15/2002	139.89	4.91					
	2/12/2002	137.65	7.15					
	3/12/2002	137.93	6.87					
	4/16/2002	136.30	8.50					
	5/14/2002	135.23	9.57					
	6/11/2002	134.33	10.47					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	132.86	11.94					
	8/13/2002	132.09	12.71					
	12/12/2002	132.27	12.53					
	3/12/2003	137.09	7.71					
	6/11/2003	135.73	9.07					
	9/10/2003	132.41	12.39					
	1/20/2004 *	138.26	6.54					
	3/31/2004	137.32	7.48					
	7/16/2004	132.95	11.85					
	9/15/2004	131.40	13.40					
	12/14/2004	134.85	9.95					

Table 1. Water Level Data and Well Construction Detail

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Date	Groundwater Elevation	Depth-to-Water	Top of Casing Elevation (Mean Sea Level)	Free Product Thickness	Screen Interval	Sand Pack Interval	Bentonite/ Grout Interval
M-8	7/22/1998	135.08	7.73	142.81	NM	2" Well 3.75 - 18 0.020"	#2/12 3 - 18	0 - 3
	8/27/1998	133.88	8.93					
	9/16/1998	133.29	9.52					
	10/20/1998	132.62	10.19					
	11/19/1998	133.40	9.41					
	12/30/1998	135.30	7.51					
	3/18/1999	138.58	4.23					
	6/16/1999	135.02	7.79					
	9/23/1999	132.11	10.70					
	12/29/1999	133.11	9.70					
	8/31/2000	132.61	10.20					
	10/17/2000	System start-up						
	10/25/2000	131.65	11.16					
	12/20/2000	133.36	9.45					
	3/15/2001	137.60	5.21					
	4/23/2001**	1.74" (0.145 ft) cutoff the top-of-casing, so lid could be properly secured.		142.67				
		Well has not been resurveyed.						
	6/14/2001	133.78	8.89					
	9/18/2001	131.18	11.49					
	11/13/2001	132.19	10.48					
	12/11/2001	137.78	4.89					
	1/15/2002	139.58	3.09					
	2/12/2002	137.22	5.45					
	3/12/2002	137.82	4.85					
	4/16/2002	136.07	6.60					
	5/14/2002	135.28	7.39					
	6/11/2002	134.54	8.13					
	6/19/2002	System down from 6/19/02 to 8/9/02 due to compressor piston failure.						
	7/16/2002	133.14	9.53					
	8/13/2002	132.65	10.02					
	12/12/2002	132.44	10.23					
	3/12/2003	136.75	5.92					
	6/11/2003	135.65	7.02					
	9/10/2003	132.84	9.83					
	1/20/2004	NM	NM					
	3/31/2004	NM	NM					
	7/16/2004	NM	NM					
	9/15/2004	NM	NM					

Notes:

* = The depth-to-groundwater measurements collected on 1/20/04 were obtained while the biosparge system was operating.

** = This table reflects the corrected groundwater elevations measured in MW-8 from 6/14/2001 to the present. The elevations are based on the adjusted TOC elevation that was a result of casing cutting on 4/23/2001.

NM = Not measured

Table 2. Groundwater Gradient and Flow Direction

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Date	Groundwater Gradient in ft/ft	Flow Direction from the Tank Area
6/25/1997	0.001	Northwest to Southwest
12/17/1998	0.003	Northwest to Southwest
1/29/1998	0.01	Northwest to Southwest
2/27/1998	0.011	Southwest
3/17/1998	0.014	Southwest to South-Southeast
4/4/1998	0.007	Southwest to South-Southeast
5/29/1998	0.011	Southwest and Northeast
6/18/1998	0.003	Southwest
7/22/1998	0.002	Southwest
8/26/1998	0.002	West to Southwest
9/16/1998	0.002	Northwest
10/20/1998	0.023	Northwest
11/20/1998	0.002	Northwest to Southwest
12/30/1998	0.002	Northwest to West
3/18/1999	0.006	Southwest to West
6/16/1999	0.002	Southwest to Northwest
9/23/1999	0.002	Northwest
12/23/1999	0.002	North 62° West
8/30/2000	0.002	North 71° West
10/25/2000	0.001	North 58° West
12/20/2000	0.002	North 75° West
3/15/2001	0.003	South 59° West
6/14/2001	0.002	North 73° West
9/18/2001	0.004	North 88° West
11/13/2001	0.005	North 62° West
12/11/2001	0.003	North 84° West
1/15/2002	0.004	South 45° West
2/12/2002	0.004	South 24° West
3/12/2002	0.003	South 62° West
4/16/2002	0.002	South 44° East
5/14/2002	0.001	South 87° East
6/11/2002	0.002	North 75° West
7/16/2002	0.003	North 71° West
8/13/2002	0.004	North 53° West
12/12/2002	0.004	West-Northwest
3/12/2003	0.005	West-Southwest
6/11/2003	0.004	West
9/10/2003	0.005	Northwest
3/31/2004	0.007	North-Northeast
7/16/2004	0.002	Northwest
9/15/2004	0.006	Northwest
12/14/2004	0.008	Northwest

Notes:

NA = Not Applicable (The depth-to-water measurements collected on 1/20/04 were obtained while the biosparge system was operating).

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-1	4/23/2002	11.43	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.77	565	63.8
	8/12/2002	10.90	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.16	412	72.5
	12/11/2002	10.01	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.33	416	63.2
	3/11/2003	10.93	NA	NA	NA	NA	61.0
	3/12/2003	NA	NA	NA	7.5	376	61.7
	6/11/2003	11.20	NA	NA	7.69	385	61.2
	9/10/2003	NA	NA	NA	7.78	388	64.2
	1/20/2004	2.94	NA	NA	NA	NA	NA
	3/30/2004	12.83	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	7.10	399	59.9
	7/1/2004	11.07	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	7.37	436	63.9
9/14-15/2004	8.57	NA	NA	7.92	408	64.9	
12/13-14/2004	9.88	NA	NA	7.35	561	63.9	
M-2	4/23/2002	1.13	<2.5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.65	361	64.0
	8/12/2002	0.79	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.69	390	62.7
	12/11/2002	1.57	NA	NA	NA	NA	NA
	3/11/2003	2.08	NA	NA	NA	NA	59.7
	3/12/2003	NA	NA	NA	8.23	309	60.5
	6/11/2003	0.91	NA	NA	NA	NA	NA
	1/20/2004	2.16	NA	NA	NA	NA	NA
	3/30/2004	Well not accessible - car parked on top.					
	3/31/2004	NA	<1.0	9.3	6.55 / 6.83 *	367	60.3
	7/1/2004	0.78	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	5.9	6.7/7.04 *	396	63.7
	9/14-15/2004	1.23	<2.0	11	6.73/6.83 *	509	65.3
	12/13-14/2004	0.93	<0.5	8.0	6.41/6.64 *	456	64.4
M-3	4/23/2002	10.55	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.72	300	66.4
	8/12/2002	5.71	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.62	302	62.6
	12/11/2002	8.50	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	7.29	276	64.3
	3/11/2003	10.00	NA	NA	NA	NA	60.6
	3/12/2003	NA	NA	NA	8.90	293	61.7
	6/11/2003	9.60	NA	NA	7.22	310	62.1
	9/10/2003	NA	NA	NA	7.21	315	65.2
	1/20/2004	6.70	NA	NA	NA	NA	NA
	3/30/2004	9.98	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	2.5	6.94 / 7.05 *	342	61.3
	7/1/2004	6.32	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	0.92	7.18/7.02 *	349	63.9
	9/14-15/2004	1.40	<2.0	0.80	6.95/7.10 *	345	66.2
	12/13-14/2004	6.82	<0.50	1.1	6.82/5.77 *	318	64.7

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-4	4/23/2002	5.93	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.18	391	68.4
	8/12/2002	5.8	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.00	355	65.2
	12/11/2002	2.58	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.76	397	64.0
	3/11/2003	4.83	NA	NA	NA	NA	61.3
	3/12/2003	NA	NA	NA	9.26	334	62.4
	6/11/2003	2.20	NA	NA	6.70	319	62.8
	9/10/2003	NA	NA	NA	7.02	451	67.2
	1/20/2004	5.55	NA	NA	NA	NA	NA
	3/30/2004	5.23	NA	NA	NA	NA	NA
	3/31/2004	NA	NA	NA	6.72	373	62.1
	7/1/2004	2.36	NA	NA	NA	NA	NA
	7/16/2004	NA	NA	NA	6.89	468	65.8
	9/14-15/2004	0.88	NA	NA	7.31	703	67.3
12/13-14/2004	3.77	NA	NA	6.80	407	65.3	
M-5	4/23/2002	1.22	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.25	356	68.2
	8/12/2002	1.75	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.98	458	65.3
	12/11/2002	2.80	NA	NA	NA	NA	NA
	3/11/2003	1.94	NA	NA	NA	NA	59.9
	3/12/2003	NA	NA	NA	9.53	505	61.7
	6/11/2003	1.16	NA	NA	NA	NA	NA
	9/10/2003	NA	NA	NA	6.73	616	62.8
	1/20/2004	4.59	NA	NA	NA	NA	NA
M-6	4/23/2002	0.16	<5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	6.72	1184	69.3
	8/12/2002	0.45	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.04	937	70.4
	12/11/2002	0.33	NA	NA	NA	NA	NA
	12/12/2002	NA	NA	NA	6.68	770	65.9
	3/11/2003	0.52	NA	NA	NA	NA	62.8
	3/12/2003	NA	NA	NA	7.5	799	64.8
	6/11/2003	0.45	NA	NA	6.63	978	64.6
	9/10/2003	NA	NA	NA	6.7	1053	67.5
	10/30/2003	0.47	NA	NA	NA	NA	NA
	11/14/2003	0.58	NA	NA	NA	NA	NA
	12/4/2003	0.64	NA	NA	NA	NA	67.4
	12/31/2003	7.40	NA	NA	NA	NA	NA
	1/15/2004	8.53	NA	NA	NA	NA	NA
	1/20/2004	7.44	NA	NA	NA	NA	NA
	3/22/2004	9.86	NA	NA	NA	NA	62.9
	3/30/2004	8.21	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	26	6.91 / 7.44 *	768	64.2
	7/1/2004	8.46	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	7	6.94/7.07 *	778	66.7
	9/14-15/2004	0.70	<2.0	1.2	7.04/7.06 *	804	68.2
	12/13-14/2004	5.59	<0.50	<0.50	6.82/6.76 *	679	68.2

Table 3. DO, Nutrients, and Indicator Parameters

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	Dissolved Oxygen	Phosphate	Nitrate as Nitrate	pH	Conductivity	Temperature
		mg/L				uS/cm	°F
M-7	4/23/2002	0.39	<5	15	NA	NA	NA
	5/14/2002	NA	NA	NA	6.69	1200	67.6
	8/12/2002	0.37	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	6.99	714	69.9
	12/11/2002	0.46	NA	NA	NA	NA	NA
	3/11/2003	0.49	NA	NA	NA	NA	65.1
	3/12/2003	NA	NA	NA	9.17	962	65.8
	6/11/2003	0.63	NA	NA	NA	NA	NA
	10/30/2003	0.53	NA	NA	NA	NA	NA
	11/14/2003	0.55	NA	NA	NA	NA	NA
	12/4/2004	0.52	NA	NA	NA	NA	69.1
	12/31/2003	0.64	NA	NA	NA	NA	NA
	1/15/2004	3.91	NA	NA	NA	NA	NA
	1/20/2004	4.25	NA	NA	NA	NA	NA
	3/22/2004	4.07	NA	NA	NA	NA	62.9
	3/30/2004	3.60	NA	NA	NA	NA	NA
	3/31/2004	NA	<1.0	150	6.66 / 6.99 *	1209	65.5
	7/1/2004	2.84	NA	NA	NA	NA	NA
	7/16/2004	NA	<0.5	94	6.61/6.81 *	1050	68.0
	9/14-15/2004	0.60	<2.0	49	6.63/6.80 *	826	69.1
	12/13-14/2004	0.35	<0.50	47	6.65/6.58 *	760	68.7
M-8	4/23/2002	0.42	5	<5	NA	NA	NA
	5/14/2002	NA	NA	NA	7.14	633	65.5
	8/12/2002	0.61	NA	NA	NA	NA	NA
	8/13/2002	NA	NA	NA	7.14	549	65.5
	12/11/2002	NA	NA	NA	NA	NA	NA
	3/11/2003	NA	NA	NA	NA	NA	NA
	3/12/2003	NA	NA	NA	11.62	573	60.8
	6/11/2003	NA	NA	NA	NA	NA	NA

Notes:

mg/L = milligrams per liter

uS/cm = microSiemens per centimeter

°F = degrees Fahrenheit

NA = Not analyzed

* = Where applicable, both the field and laboratory results for pH are reported as follows (field / lab).

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L																
M-1	12/29/1992	<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None
	1/27/1993	16,000	420	200	420	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/27/1993	15,000	400	190	400	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/11/1993	16,000	200	96	450	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/13/1994	19,000	160	64	450	980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/1994	160	8.7	2.2	3	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/26/1994	470	3.7	1.2	0.63	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/1994	19,000	4.1	1.6	5.5	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/1995	11,000	300	140	270	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/24/1995	11,000	180	53	340	830	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/23/1995	1,700	190	23	52	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/1995	13,000	92	27	310	840	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/23/1996	6,300	110	46	180	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/1996	9,800	230	100	350	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/12/1997	7,900	160	74	210	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/26/1997	7,000	97	29	130	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/1997	3,200	71	39	110	220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/1998	450	7.8	3.6	17	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/18/1998	3,000	43	8.3	92	150	NA	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/16/1998	2,500	120	35	150	190	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA
	12/30/1998	3,400	69	42	97	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/1999	490	8.8	2.5	13	25	NA	<0.50	<5	<5	<1	<5	<5	<1	<5	<1
	6/16/1999	2,600	100	38	90	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/23/1999	330	23	5.2	14	20	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA
12/29/1999	640	120	39	29	67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8/31/2000	440	31	7.8	22	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10/25/2000	1,000	27	26	8	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/20/2000	<50	0.85	0.31	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3/15/2001	1,300	25	64	27	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/13/2001	280	2.3	2	0.62	17	<0.50	<0.50	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/12/2002	210	5.3	3.9	2.1	10	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
5/14/2002	250	6	15	7.1	115	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
8/9/2002 #	<50	<0.5	<0.5	<0.5	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
3/12/2003	77	<1.0	1.0	<1.0	3.4	1.5	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
6/11/2003	110	<1.0	1.5	1.0	5.3	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
9/10/2003	<50	<1.0	<1.0	<50	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
3/31/2004	86	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
M-2	5/13/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/1994	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/24/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/23/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/16/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene		
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)					
Water Quality Objectives in ug/L																		
		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None		
	3/23/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/20/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/19/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	NA	NA	NA		
	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.5	<5	<1	<5	<5	<1	NA	NA	NA		
	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA		
	12/23/1999	<50	<0.30	<1.20	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.5	<0.5	<10	<0.50	<0.50	<0.50	NA	NA	NA		
2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<1	<25	<1.0	<1.0	<1.0	<1.0	NA	NA			
5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA			
8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA			
12/12/2002									Not sampled this event									
3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA		
6/11/2003									Not sampled this event									
9/10/2003									Not sampled this event									
3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	NA	NA	NA		
7/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
9/15/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
12/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
M-3	2/27/1997	14,000	9.4	<4.5	250	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/13/1997	6,400	7.3	<0.30	120	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/27/1997	6,700	8.9	<4.5	170	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	12/18/1997	4,700	14	<0.9	180	95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/17/1998	2,400	2.7	<1.2	64	67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/18/1998	6,200	7.1	2.1	210	140	NA	NA	<5	0.58	<0.50	<0.50	<0.50	NA	NA	NA		
	9/16/1998	6,800	<0.30	<0.30	260	110	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA		
	12/30/1998	3,300	6.7	<2.4	130	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/18/1999	6,400	0.6	<0.50	170	90	NA	<0.50	<5	<1	<5	<5	<1	NA	NA	NA		
	6/16/1999	5,700	5.3	<2.4	190	73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	9/23/1999	1,700	1.5	<1.2	68	11	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA		
	12/23/1999	2,000	3.6	<1.2	88	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	8/31/2000	2,000	1.6	<1.2	72	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	10/25/2000	390	<0.30	<0.30	3.5	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	12/20/2000	2,900	1.3	<0.30	49	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	3/15/2001	210	<0.30	<0.30	1.4	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.5	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA		

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)	Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene	
									ug/L	<12	<5	None	<10									<10
Water Quality Objectives in ug/L																						
M-4	2/12/2002	<50	<0.5	<42	<29	<17	None	<0.5	<5	<10	<1	<10	<1	<25	<10	<10	<10	<10	None	None	None	
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	1.3	
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	6/11/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
	3/12/1997	3,700	3.6	<0.30	110	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/27/1997	820	1.5	<0.30	7.9	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/20/1997	6,300	<0.9	<0.9	180	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/18/1998	3,800	3.8	<1.2	37	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/19/1998	6,100	<12	<12	130	180	NA	NA	NA	<5.3	1.3	<0.53	<0.53	<0.53	NA	NA	NA	<0.53	^	^	^	^
	9/16/1998	2,600	2.5	<0.30	140	300	NA	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/30/1998	1,500	2.3	1.3	48	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
3/18/1999	3,100	0.8	1	100	190	NA	NA	<0.50	<5	<1	<0.50	<1	<0.50	<5	<1	<5	<5	<1	^	^	^	
6/16/1999	1,100	1.1	<1.2	29	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
9/23/1999	100	0.42	<0.30	0.53	<0.50	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
12/29/1999	880	1.5	<1.2	39	54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
8/31/2000	220	0.52	<0.30	7.3	7.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
10/25/2000	120	0.73	0.87	1.4	5.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
12/20/2000	500	0.52	<0.30	17	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
3/15/2001	<50	<0.30	<0.30	<0.50	0.74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
11/13/2001	530	<0.30	<0.30	<0.50	<0.50	3.2	<0.5	<0.5	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	^	^	^	
2/12/2002	<50	<0.50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	5.7°C	
12/12/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
6/11/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
9/10/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
7/16/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
12/14/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	^^	^^	^^	
M-5	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^
	6/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	^	^	^	
	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	NA	NA	NA	^	^	^	
3/18/1999	70	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<5	<1	<5	<5	<5	<1	<50	NA	NA	NA	^	^	^		
6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^	^	^	
9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA	^	^	^	

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
330 Sebastopol Road, Santa Rosa, CA

Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L																
		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None
M-6	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1	<1	<25	<10	<10	<10	<10	2	1	NA
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<10	<10	<10	<10	1.6	NA	NA
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<10	<10	<10	<10	6	2.3	NA
	12/12/2002								Not sampled this event							
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<10	<10	<10	<10	3.1	2.2	0.71
	6/11/2003								Not sampled this event							
	9/10/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<10	<10	<10	<10	5.3	2.9	NA
	3/31/2004								Sampling no longer required							
M-6	3/12/1997	6,000	52	4.5	280	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/26/1997	3,500	21	1.2	110	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/18/1997	3,500	61	<0.9	340	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/18/1998	1,800	19	<1.2	63	31	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
	9/16/1998	1,700	9.7	<0.30	100	49	NA	NA	NA	<0.50	NA	NA	NA	NA	NA	NA
	12/30/1998	1,600	25	1.9	88	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/18/1999	780	3	<0.50	0.8	3	NA	<0.50	<5	<1	<5	<5	<1	NA	NA	NA
	6/16/1999	1,900	23	<1.2	88	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/23/1999	1,700	30	<1.2	110	56	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	NA
	12/29/1999	1,500	160	12	190	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/31/2000	2,000	53	3.5	110	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/25/2000	1,800	39	<1.2	75	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/20/2000	4,200	57	<6.0	160	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/15/2001	3,500	49	<1.8	110	62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/14/2001	3,300	38	<0.66	310	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/18/2001	1,900	<14	<0.57	60	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/13/2001	1,000	4	<0.30	19	6.6	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	NA	NA	NA
	2/12/2002	1,200	22	2.6	56	50	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	5/14/2002	2,100	11	<1.0	94	54	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	8/13/2002	2,000	7.5	<1.0	<1.0	53	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	12/12/2002	1,700	7	<1.0	66	49.3	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	3/12/2003	4,100	11	2.4	180	177.4	<2.0	<2.0	<25	<20	<20	<20	<20	NA	NA	NA
	6/11/2003	2,400	7.0	1.0	110	62.7	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	9/10/2003	1,900	3.7	<1.0	74	44.3	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	3/31/2004	890	<1.0	<1.0	17	6.6	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	7/16/2004	850	<1.0	<1.0	9.5	6.4	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	9/15/2004	180	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
	12/14/2004	490	<1.0	<1.0	<1.0	19.3	<1.0	<1.0	<25	<10	<10	<10	<10	NA	NA	NA
M-7	3/12/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/17/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/17/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/18/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<5.0	<0.50	<0.50	<0.50	<0.50	NA	NA	NA

Table 4. Analytical Results of Groundwater Monitoring Well Samples

Former Exchange Bank Site
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Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L																
M-8		<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.50	<5	<1	<5	<5	<1	<5	<1	^
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA	NA	NA	NA	^
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	^
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^
	5/14/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	^
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	^
	12/12/2002	Not sampled this event														
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	5.9	<1.0	<1.0	<1.0	<1.0	^
	6/11/2003	Not sampled this event														
	9/10/2003	Not sampled this event														
	3/31/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^
	7/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	9/15/2004	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	^
	12/14/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
M-8	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	^
	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	<0.5	<5	<1	<5	<5	<1	<5	<1	^
	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	0.65	NA	NA	NA	NA	NA	NA	NA	^
	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	0.98	NA	NA	NA	NA	NA	NA	NA	^
	12/29/1999	<50	<0.30	<0.30	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	10	13	3.3
	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	6/14/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
	11/13/2001	<50	<0.30	<0.30	<0.50	<0.50	<0.50	0.64	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	^
	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	<1.0	<1.0	<25**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6
	5/14/2002	<50	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1
	8/13/2002	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.4
	12/12/2002	Not sampled this event														
	3/12/2003	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	1.0	<1.0	<1.0	<1.0	<1.0	11
	6/11/2003	Not sampled this event														
	9/10/2003	Not sampled this event														
	3/31/2004	Sampling no longer required														
SP-9	8/1/2003	7,600	<10	25	77	850	<10	<10	<250	<10	<10	<10	<10	<10	<10	^
SP-10	8/1/2003	1,000	4.4	<1.0	46	27	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	^
SP-11	8/1/2003	2,100	3.4	<1.0	21	125	<1.0	<1.0	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	^
QA/QC	6/24/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
QA/QC	9/23/1995	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
TB	3/23/1996	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
Trip Blank	2/26/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
Trip Blank	2/28/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
Travel Blank	3/13/1997	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^
EB	3/12/1997	<50	<0.30	0.58	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	^

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Well ID	Sample Date	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-dibromoethane (EDB)	1,2-dichloroethane (EDC)	5 Oxygenates					Tetrachloroethene (PCE)	Trichloroethene (TCE)	cis-1,2-dichloroethene
									Tert-butyl alcohol (TBA)	Methyl tert-butyl ether (MTBE)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	Tert-amyl methyl ether (TAME)			
Water Quality Objectives in ug/L																
Trip Blank	6/27/1997	<50	<1	<42	<29	<17	None	<0.5	<12	<5	None	None	None	None	None	None
QA	6/26/1997	<50	<0.30	0.42	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drums	3/12/1997	2,700	43	16	100	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drum	6/27/1997	<50	0.48	<0.30	<0.50	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drum	12/18/1997	92	1.2	0.35	4.6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/16/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	NA	NA	NA
Trip Blank	12/30/1998	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Drum	3/18/1999	190	<0.50	<0.50	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	3/18/1999	<50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	6/16/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	12/23/1999	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	8/31/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	10/25/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	<0.30	NA	NA	NA	NA	NA	NA
Trip Blank	12/20/2000	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	3/15/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	6/14/2001	<50	<0.30	0.36	<0.50	0.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/18/2001	<50	<0.30	<0.30	<0.50	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	2/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	5/14/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	8/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	12/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	3/12/2002	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	6/11/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	9/10/2003	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trip Blank	3/31/2004	<50	<0.50	<0.50	<0.50	<1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

TPH-G = denotes total petroleum hydrocarbons quantified as gasoline, analyzed by EPA Method 8015.

VC = vinyl chloride detected at 1.4 ug/l.

<x = denotes analyte not detected at, or above the detection limit of x.

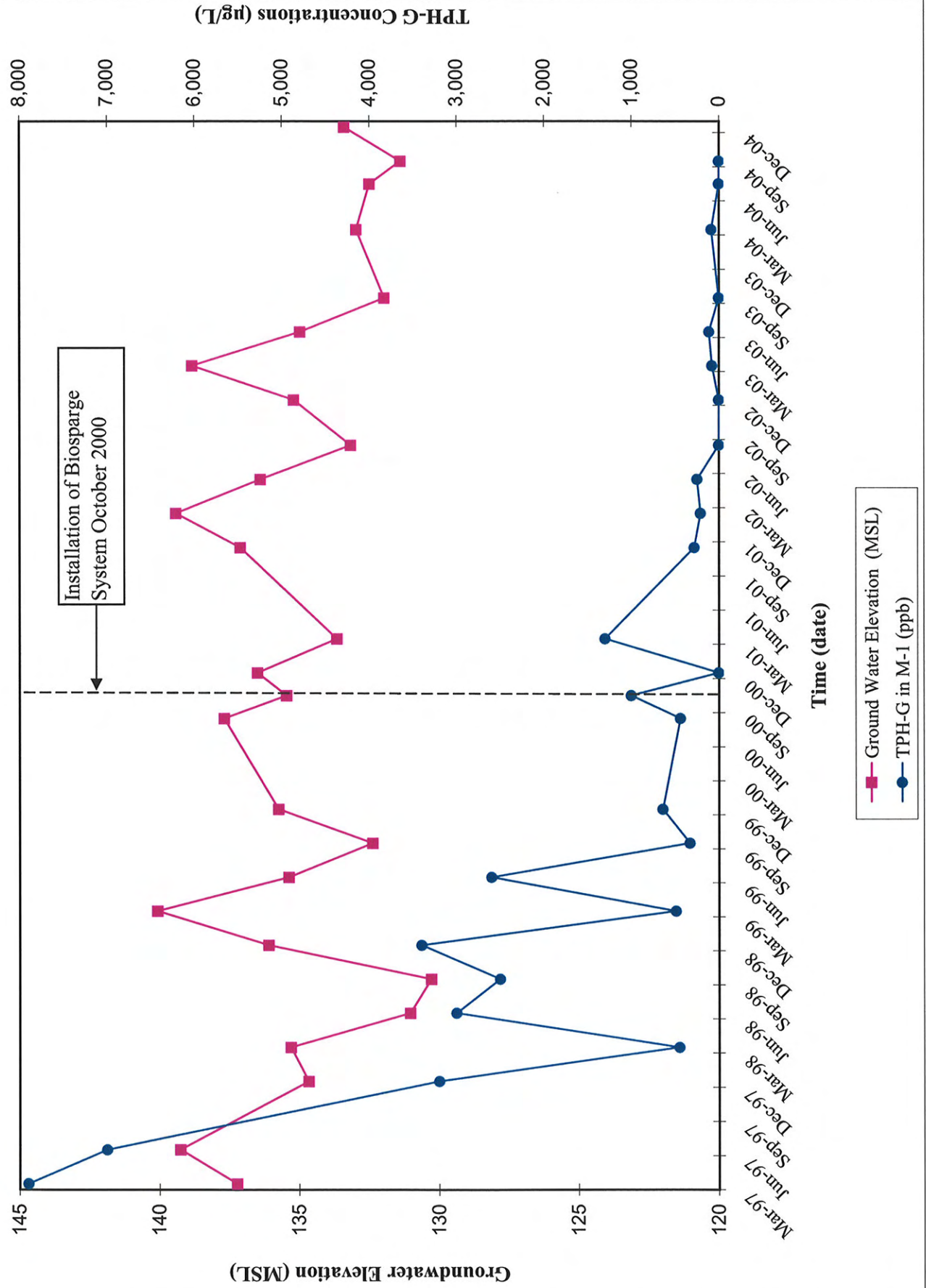
NA = denotes not analyzed; well M-2 was not accessible on March 18, 1995.

^ = Concentrations of the non target constituents detected prior to 2/12/02 are not included in the table. The detection limit of the non target constituents are not available on the laboratory report.

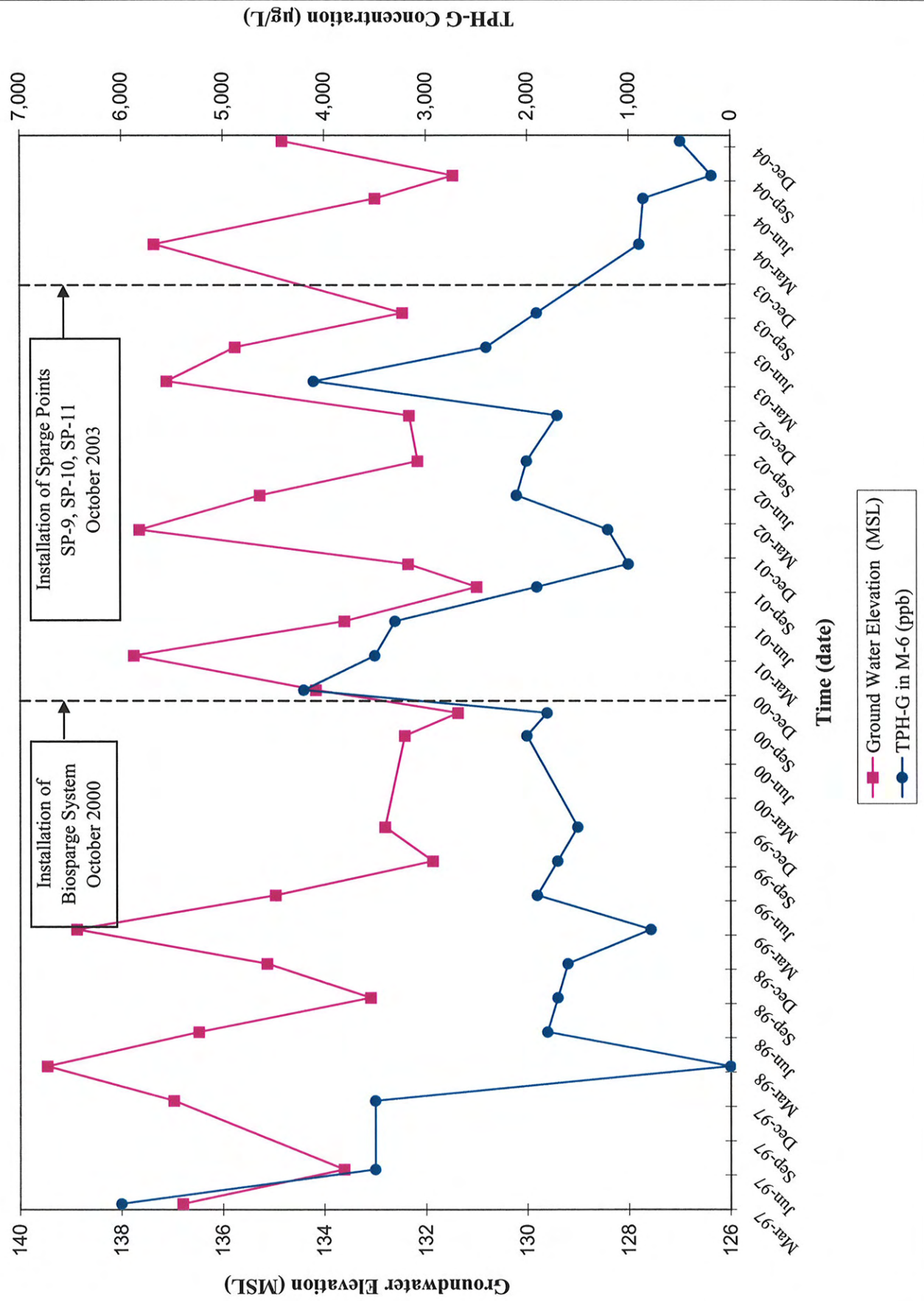
^^ = Non target constituents not detected. The detection limits are not provided on the laboratory report.

= Samples were collected immediately prior to re-start after system had been shut down for 51 days.

Graph 1 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-1



Graph 2 - TPH-G Concentrations vs. Groundwater Elevations Over Time in M-6



Appendix A

Site-Specific Sampling Procedures

WINZLER & KELLY CONSULTING ENGINEERS

Site-Specific Groundwater Sampling Procedures Former Exchange Bank Data Center 330 Sebastopol Road Santa Rosa, California December 13 and 14, 2004

1. Objective

Collect representative water level data and groundwater samples.

2. Background

Based on the analytical results of the previous sampling, field work proceeded from the monitoring wells in which the samples collected had the lowest concentrations of constituents to the wells that had the highest concentrations of constituents.

Water levels were measured to determine the direction and gradient of groundwater flow. Representative groundwater samples from the water-bearing zone were obtained using disposable polyethylene bailers following purging.

3. Personnel Required and Responsibilities

Winzler & Kelly Environmental Engineer: Pon Xayasaeng performed groundwater monitoring and sampling activities in accordance with the procedures outlined below.

4. Procedures

4a. Biosparge System Shutdown and DO Concentrations

- The membrane on the YSI Model 55 DO meter was checked for the presence of bubbles and wrinkles, neither of which was observed.
- The meter was calibrated in the field prior to collecting measurements.
- Using the calibrated YSI Model 55 DO Meter, DO concentrations were measured in each monitoring well except for M-5 and M-8.
- Following DO measurements, the biosparge system was shutdown to allow groundwater to equilibrate.

4b. Decontamination Procedures

- Usingalconox soap and potable water, all equipment and instruments to be used were decontaminated upon arriving at the site.
- All equipment and instruments were decontaminated after use in each well.
- All equipment and instruments were decontaminated after field activities had been completed.

- Nitrile gloves were worn by sampler at all times and changed after handling equipment and instruments.

4c. Groundwater Elevations

- Opened all monitoring wells to be measured and removed expandable caps. Allowed wells to equilibrate for a minimum of 30 minutes.
- A water level meter was used to determine the depth-to-groundwater in each monitoring well.
- Recorded depth, time and visual observations regarding well access, condition, security, etc on water level data sheet.
- Decontaminated the water level meter after each use.

4d. Purging

- Calibrated Ultrameter for conductivity and pH. Temperature calibration is not necessary in the Ultrameter.
- Conductivity was calibrated using KCl-7000 standard solution within its expiration date.
- The calibration for pH included “zeroing” the Ultrameter with a pH 7 buffer solution followed by adjusting the gain with acid and base buffers (4.01 and 10.00).
- Calculated the volume of standing water in each monitoring well using measured depth-to-water and historic depth-to-bottom. Recorded the volume calculated for each well on the Well Sampling Data Sheet.
- Purged monitoring wells using a 12-volt DC 1.5-inch electric submersible pump.
- Monitoring well M-4 was purged with a polyethylene disposable bailer in order to prevent de-watering.
- Obtained readings of field parameters (pH, conductivity, temperature) with meter and visual observations of color/odor/turbidity at each well casing interval throughout the purging process.
- Recorded the time, readings, and visual comments on the Well Sampling Data Sheet.
- Purged each well until field parameters stabilized, not exceeding 7 casing volumes, or until the well de-watered.
- Decontaminated the electric submersible pump after each use.
- All excess water was transferred to 55-gallon drums labeled and secured on site.

4e. Groundwater Sample Collection

- Groundwater samples were collected by lowering new, disposable, polyethylene, bottom-filling bailers into the well after the water level had recharged to at least 80%.
- When completely full, the bailer was carefully retracted from the well casing.
- The groundwater was transferred from the bailer into 40-ml glass vials preserved with HCl.
- Upon filling, each vial was immediately capped. The vial was checked for air bubbles by inverting and gently tapping the vial.

- All samples were labeled with the following information:

Sample ID	Date and Time Sample Collected
Location	Sampler's Initials
Project Number	
- Sample information was documented on a chain-of-custody form.
- All samples were placed in an ice chest chilled with ice.
- Upon completion of the sampling activities, each well was closed and secured by replacing the well cap and securing the lock.

5. Equipment Used:

- Disposable gloves
- Potable water
- Alconox soap
- Containers to hold rinsate water
- Scrub Brushes
- Tools to open wells
- Keys to wells
- Water Level Data Form/pencil
- Well Sampling Data Sheet
- Groundwater Sampling Log form
- Water level meter
- 12-volt DC 1.5-inch electric submersible pump
- UltraMeter
- Containers to hold extracted water (as required)
- Disposable bailers (previously unused)
- Monofilament nylon line (50 lb test)
- Scissors
- Laboratory supplied sample containers (preserved, as required)
- Sample labels
- Ice chest
- Ice
- Labels/indelible marker
- Trash bags
- 55-gallon drums
- Ziploc bags
- Portable 12-V battery

Appendix B

Analytical Laboratory Report



Report Date: December 21, 2004

Pon Xayasaeng
Winzler & Kelly Consulting Engineers
495 Tesconi Circle, Suite 9
Santa Rosa, CA 95401-4696

LABORATORY REPORT

Project Name: **Exchange Bank** **04220803.003**

Lab Project Number: **4121411**

This 12 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
27108	M-3	TPH/Gasoline	ND	50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5122
Date Received: 12/14/04	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
27109	M-4	TPH/Gasoline	ND	50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5122
Date Received: 12/14/04	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
27110	M-1	TPH/Gasoline	ND	50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5122
Date Received: 12/14/04	Method: EPA 5030/8015M	

Lab #	Sample ID	Analysis	Result (ug/L)	RDL (ug/L)
27112	M-6	TPH/Gasoline	490	50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5122
Date Received: 12/14/04	Method: EPA 5030/8015M	



Volatile Hydrocarbons by GC/MS in Water

Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
27108	M-3	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	19.8	99.0	70 – 130
toluene-d ₈ (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	21.0	105	70 – 130

Date Sampled: 12/14/04
Date Received: 12/14/04

Date Analyzed: 12/15/04
Method: EPA 8260B

QC Batch #: 5124



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
27109	M-4	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		Oxygenated Gasoline Additives		
		tert-butyl alcohol (TBA)	ND	25
		methyl tert-butyl ether (MTBE)	ND	1.0
		di-isopropyl ether (DIPE)	ND	1.0
		ethyl tert-butyl ether (ETBE)	ND	1.0
		tert-amyl methyl ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)		19.4	97.0	70 – 130
toluene-d ₈ (20)		19.6	98.0	70 – 130
4-bromofluorobenzene (20)		20.5	103	70 – 130

Date Sampled: 12/14/04
Date Received: 12/14/04

Date Analyzed: 12/15/04
Method: EPA 8260B

QC Batch #: 5124



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
27110	M-1	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	ND	1.0
		o-xylene	ND	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0
		Oxygenated Gasoline Additives		
		tert-butyl alcohol (TBA)	ND	25
		methyl tert-butyl ether (MTBE)	ND	1.0
		di-isopropyl ether (DIPE)	ND	1.0
		ethyl tert-butyl ether (ETBE)	ND	1.0
		tert-amyl methyl ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)		19.3	96.5	70 – 130
toluene-d ₈ (20)		20.2	101	70 – 130
4-bromofluorobenzene (20)		20.1	101	70 – 130

Date Sampled: 12/14/04
Date Received: 12/14/04

Date Analyzed: 12/15/04
Method: EPA 8260B

QC Batch #: 5124



Lab #	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
27112	M-6	benzene	ND	1.0
		toluene	ND	1.0
		ethyl benzene	ND	1.0
		m,p-xylene	12	1.0
		o-xylene	7.3	1.0
		1,2-dibromoethane (EDB)	ND	1.0
		1,2-dichloroethane (EDC)	ND	1.0

Oxygenated Gasoline Additives

tert-butyl alcohol (TBA)	ND	25
methyl tert-butyl ether (MTBE)	ND	1.0
di-isopropyl ether (DIPE)	ND	1.0
ethyl tert-butyl ether (ETBE)	ND	1.0
tert-amyl methyl ether (TAME)	ND	1.0

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	19.0	95.0	70 – 130
toluene-d ₈ (20)	19.7	98.5	70 – 130
4-bromofluorobenzene (20)	20.7	104	70 – 130

Date Sampled: 12/14/04
Date Received: 12/14/04

Date Analyzed: 12/15/04
Method: EPA 8260B

QC Batch #: 5124



Nitrate in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27107	M-2	Nitrate (NO_3^-)	8.0	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27108	M-3	Nitrate (NO_3^-)	1.1	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27111	M-7	Nitrate (NO_3^-)	47	2.0

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27112	M-6	Nitrate (NO_3^-)	ND	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	



pH in Water

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result</u>
27107	M-2	pH	6.64

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5123
Date Received: 12/14/04	Method: EPA 9040	

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result</u>
27108	M-3	pH	5.77

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5123
Date Received: 12/14/04	Method: EPA 9040	

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result</u>
27111	M-7	pH	6.58

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5123
Date Received: 12/14/04	Method: EPA 9040	

<u>Lab #</u>	<u>Sample ID</u>	<u>Analysis</u>	<u>Result</u>
27112	M-6	pH	6.76

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5123
Date Received: 12/14/04	Method: EPA 9040	



Phosphate in Water

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27107	M-2	Phosphate (PO ₄)	ND	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27108	M-3	Phosphate (PO ₄)	ND	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27111	M-7	Phosphate (PO ₄)	ND	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	

Lab #	Sample ID	Analysis	Result (mg/L)	RDL (mg/L)
27112	M-6	Phosphate (PO ₄)	ND	0.50

Date Sampled: 12/14/04	Date Analyzed: 12/15/04	QC Batch #: 5089
Date Received: 12/14/04	Methods: EPA 300 (IC)	



LABORATORY QUALITY ASSURANCE REPORT

QC Batch #: 5122

Lab Project #: 4121411

Sample ID	Compound	Result (ug/L)
MB	TPH/Gas	ND
MB	MTBE	ND
MB	Benzene	ND
MB	Toluene	ND
MB	Ethyl Benzene	ND
MB	Xylenes	ND

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.
26949	CMS	TPH/Gas		NS	
	CMS	Benzene	9.38	10.0	93.8
	CMS	Toluene	10.3	10.0	103
	CMS	Ethyl Benzene	11.2	10.0	112
	CMS	Xylenes	35.6	30.0	119

Sample #	Sample ID	Compound	Result (ug/L)	Spike Level	% Recv.	RPD
26949	CMSD	TPH/Gas		NS		
	CMSD	Benzene	9.69	10.0	96.9	3.2
	CMSD	Toluene	10.6	10.0	106	2.8
	CMSD	Ethyl Benzene	11.4	10.0	114	1.8
	CMSD	Xylenes	36.1	30.0	120	1.3

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



QC Batch #: 5124

Lab Project #: 4121411

Sample ID	Compound Name	Result (ug/L)
MB	1,1-dichloroethene	ND
MB	benzene	ND
MB	trichloroethene	ND
MB	toluene	ND
MB	chlorobenzene	ND

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	21.5	108	70 – 130
toluene-d ₈ (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	20.5	103	70 – 130

Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.
26987	CMS	1,1-dichloroethene	24.3	25.0	97.2
	CMS	benzene	23.3	25.0	93.2
	CMS	trichloroethene	18.6	25.0	74.4
	CMS	toluene	23.0	25.0	92.0
	CMS	chlorobenzene	23.8	25.0	95.2

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	22.5	113	70 – 130
toluene-d ₈ (20)	19.9	99.5	70 – 130
4-bromofluorobenzene (20)	19.9	99.5	70 – 130



Sample #	Sample ID	Compound Name	Result (ug/L)	Spike Level	% Recv.	RPD
26987	CMSD	1,1-dichloroethene	24.3	25.0	97.2	0.0
	CMSD	benzene	24.1	25.0	96.4	3.4
	CMSD	trichloroethene	19.0	25.0	76.0	2.1
	CMSD	toluene	23.8	25.0	95.2	3.4
	CMSD	chlorobenzene	23.6	25.0	94.4	0.84

Surrogates	Result (ug/L)	% Recovery	Acceptance Range (%)
dibromofluoromethane (20)	22.3	112	70 – 130
toluene-d ₈ (20)	20.1	101	70 – 130
4-bromofluorobenzene (20)	20.0	100	70 – 130

MB = Method Blank; LCS = Laboratory Control Sample; CMS = Client Matrix Spike; CMSD = Client Matrix Spike Duplicate
NS = Not Spiked; OR = Over Calibration Range; NR = No Recovery



Analytical Sciences

CHAIN OF CUSTODY

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LAB PROJECT NUMBER: 4121411
WINZLER & KELLY PROJECT NAME: Exchange Bank
WINZLER & KELLY PROJECT NUMBER: 04 220803.003

GEOTRACKER EDF: X Y N
GLOBAL ID: 10609700062

COOLER TEMPERATURE
000 °C
COC
PAGE 1 OF 1

MOBILE LAB
SAME DAY
48 HOURS
5 DAYS
NORMAL X

COMPANY NAME: WINZLER & KELLY CONSULTING ENGINEERS
ADDRESS: 495 TESCONI CIRCLE, SUITE 9
SANTA ROSA, CA 95401-4696
CONTACT: Paula - Results / For Questions
PHONE#: (707) 523-1010
FAX #: (707) 527-8679

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	TPH/GAS/PAH/MTBE	TPH DIESEL / MOTOR OIL	EPA 8010M	VOLATILE HYDROCARBONS EPA 8260B (FULL LAB)	BTEX & OXYGENATES + PA SCALVENGERS EPA 8260B (FULL LAB)	FUEL ADDITIVES EPA 8260B	CHLORINATED SOLVENTS EPA 8010 / EPA 8260B	SEMI-VOLATILE HYDROCARBONS EPA 8270	TRPH / TOG SM 8600F / EPA 418.1M	PESTICIDES / PCB'S EPA 8081 / 8141 / 8082	CAM 17 METALS / BLUET METALS	TOTAL LEAD Nitrate, pH	COMMENTS	LAB SAMPLE #
1	M-2	12/14/04	12:38	W	1	No	X													27102
2	M-3		12:45		5	Yes/No	X													27103
3	M-4		12:51		4	Yes	X													27104
4	M-1		13:04		4	Yes	X													27105
5	M-7		13:11		1	No														27111
6	M-10		13:20		5	Yes/No	X													27112
7																				
8																				
9																				
10																				
11																				

RELINQUISHED BY: P. Xuyaseng SIGNED BY: P. Xuyaseng RECEIVED BY LABORATORY: Linda K. Kaelin
DATE: 12/14/04 DATE: 12/14/04 TIME: 14:17 TIME: 14:18

Appendix C

GeoTracker Upload Verifications

Electronic Submittal Information

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 5365220069

Date/Time of Submittal: 1/7/2005 3:40:38 PM

Facility Global ID: T0609700062

Facility Name: EXCHANGE BANK

Submittal Title: Quarterly Groundwater Monitoring Report, 2nd Qtr 2004

Submittal Type: GW Monitoring Report

Electronic Submittal Information

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UPLOADING A GEO_WELL FILE

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Title: Well Measurement File, 4th Quarter 2004, Former Exchange Bank

Submittal Date/Time: 1/10/2005 10:04:47 AM

Confirmation
Number: 3021687150

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